

VERSION WITH MARKINGS TO SHOW CHANGES MADE

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Date: June 11, 2002

Serial No.: 09/409,800

Group Art Unit: 1655

Filed: 09/30/99

Examiner: Juliet Caroline Einsmann

Title: PLASMID DNA FROM YERSINIA PESTIS

File No.: 960296.95939

In the Specification:

Page 1, line 7, delete the paragraph which begins "This invention" and insert therefor the following paragraph:

[This invention was made with United States government support awarded by \_\_\_\_\_.]

--This invention was made with United States government support awarded by NIH Grant No. HG01428, Subcontract No. 144 FH33. The US government has certain rights in this invention.--

Page 15, please amend the paragraph beginning on line 17 as follows:

Subsequent searches of the Swiss Protein, *E. coli* and non-redundant GenBank databases were obtained over the Internet using BLAST software (Altschul, et al., Nucleic Acids Res. 25:3389-3402, 1997) from the National Center for Biotechnology Information homepage [(www.ncbi.nlm.gov/BLAST/)] (which can be found on the world wide web under [ncbi.nlm.gov/BLAST](http://www.ncbi.nlm.gov/BLAST)). Pairwise protein alignments were with the BLAST algorithm. Protein localization was predicted for relevant translated *orfs* using the PSORT program (Nakai, et al. Proteins: Structure, Function, and Genetics 11:95-110, 1991). The prediction of membrane associated helices was with the TMpred program (Hoffman, et al. Biol. Chem. 347:166-172, 1993). Where appropriate, multiple protein sequences were aligned using the

algorithm developed by Lipman *et. al.* (Proc. Natl. Acad. Sci. USA 86:4412-4415, 1989). These programs can be found as part of Pedros Molecular Biology Tools at Internet site [www.iastate.edu](http://www.iastate.edu).

In the Claims:

Please withdraw Claims 1-8 as non-elected, please amend Claims 9 and 10 as follows and add the following new Claim 12:

9. (Amended) An isolated polynucleotide sequence [selected from the group consisting of Y004, Y005 and Y007] having the sequence of SEQ ID NO:3, nucleotides 2389 to 2826, as found in plasmid pPCP1 found in *Yersinia pestis*.

10. (Amended) A recombinant DNA construction comprising an open reading frame placed under the control of a non-native promoter, the open reading frame [selected from the group consisting of Y004, Y005, Y007,] being SEQ ID NO:3, base pairs 2389 to 2826, as found in *Yersinia pestis* plasmid pPCP1.

11. A host transformed with the DNA construction of claim 10.

12. (New) An isolated polynucleotide sequence comprising a DNA molecule of at least 25 continuous nucleotides contained in SEQ ID NO:3, nucleotides 2389 to 2826, or the complement to such 25 continuous nucleotides.

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